

## Product datasheet for **SC332823**

### TRAK1 (NM\_001265609) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRAK1 (NM_001265609) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRAK1
Synonyms:	EIEE68; MILT1; OIP106
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

**Fully Sequenced ORF:** >SC332823 representing NM\_001265609.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGCAGAAATTTATCGAAGCGGATTATTATGAACTAGACTGGTATTATGAAGAATGCTCGGATGTTTTA
TGTGCTGAAAGAGTTGGCCAGATGACTAAGACATATAATGACATAGATGCTGTCACTCGGCTTCTTGAG
GAGAAAGAGCGGGATTTAGAATTGGCCGCTCGCATCGCCAGTCGTTGTTGAAGAAGAACAAGACCCTA
ACCGAGAGGAACGAGCTGCTGGAGGAGCAGGTGGAACACATCAGGGAGGAGGTGTCTCAGCTCCGGCAT
GAGCTGTCCATGAAGGATGAGCTGCTTCAGTTCTACACCAGCGCTGCGGAGGAGAGTGAGCCCGAGTCC
GTTTGCTCAACCCGTTGAAGAGGAATGAGTCGTCTCTCAGTCCAGAATTACTTTTCATTTGGATTCT
CTTCAAAAGAAGCTGAAAGACCTTGAAGAGGAGAATGTTGTACTTCGATCCGAGGCCAGCCAGCTGAAG
ACAGAGACCATCACCTATGAGGAGAAGGAGCAGCAGCTGGTCAATGACTGCGTGAAGGAGCTGAGGGAT
GCCAATGTCCAGATTGCTAGTATCTCAGAGGAAGTGGCCAAGAAGACGGAAGATGCTGCCGCCAGCAA
GAGGAGATCACACACCTGCTATCGCAAATAGTTGATTTGCAGAAAAGGCAAAGCTTGCAGTGGAA
AATGAAGAAGCTTGTCCAGCATCTGGGGGCTGCTAAGGATGCCAGCGGCAGCTCACAGCCGAGCTGCGT
GAGCTGGAGGACAAGTACGAGAGTGCATGGAGATGCTGCATGAGGCGCAGGAGGAGCTGAAGAACCTC
CGGAACAAAACCATGCCAATACCACGCTCTCGGCCTACCACTCACTGGGCTGTTTCCCATGGATTCC
TTGGCAGCAGAGATTGAGGGAACGATGCCAAGGAGCTGCAGTTGGAAGAGGCCGAGTCTCCAGACATC
ACTCACCAGAAGCGTGTCTTTGAGACAGTAAGAAAACATCAACCAGGTTGTCAAGCAGAGATCTTGACC
CCTTCTCCCATGAACATCCCCGGCTCCAACCAGTCTCGGCCATGAACTCCCTCTGTCCAGCTGCGTC
AGCACCCCGGTCCAGTCTACGGCAGCGACATAGGCAACGTCGTCTCGACAACAAGACCAACAGC
ATCATTCTGAAACAGAGGCAGCCGACCTGGGAAACGATGAGCGGAGTAAAGAGCCGGGACGCCGGGC
ACCCAGGCTCCCAGACCTGGAGACGGCGCTGAGGCGGCTGTCCCTGCGCCGGGAGAAGTACCTCTCG
GAGAGGAGGTTCTTTGAGGAGGAGCAAGAGAGGAAGCTCCAGGAGCTGGCGGAGAAGGGCGAGCTGCGC
AGCGGCTCCCTCACACCCACTGAGAGCATCATGTCCCTGGGCACGCACTCCCGTCTCCGAGTTACC
GGTCTCTGGCATGTCCTTACGAGCCGCTCCTACCTGCCTGAGAAGCTCCAGATCGTGAAGCCGCTG
GAAGGTTCCGCCACACTTCAACTGGCAGCAGTTGGCCAACTCACCTTGGGGCATCTGGACCCC
CGGCCCGGTGTGGTACCAAGGGCTTCCGGACGCTGGATGTTGACCTGGACGAAGTGTACTGCCTAAC
GACTTTGAAGAAGATGACACAGGTGACCACATTTCTCTCCACGCCTAGCTACCTCCACTCCAGTTCAG
CACCCAGAGACCTCAGGTGAGAGGTCCCAAGCACGTGTGACTGTCTCAGGCAGCAGAAGTACCCGAGC
CGGCTCAGGCTTCCCAGAGGAGATGCAGGAGCCGCCAGCGGCCACGGAGGAGGAGGAGGAGGAG
GAGGAGGAGGGTCTGGTGAGGGCACACGATAAGTCCTGTAACCTTGGCACCTTCCCAGGAGCAGAG
TTTTGGGCCATTCTCACCTCTGTCCAGGCACCATCCGTAGTGGTCTCTGTCTGTAGCTCCGCTCGT
CTGTGTGGGTGA
  
```

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001265609

**Insert Size:** 2013 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u>NM_001265609.1</u>
<b>RefSeq Size:</b>	4683 bp
<b>RefSeq ORF:</b>	2013 bp
<b>Locus ID:</b>	22906
<b>Cytogenetics:</b>	3p22.1
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	75.5 kDa
<b>Gene Summary:</b>	<p>Involved in the regulation of endosome-to-lysosome trafficking, including endocytic trafficking of EGF-EGFR complexes and GABA-A receptors (PubMed:18675823). Involved in mitochondrial motility. When O-glycosylated, abolishes mitochondrial motility. Crucial for recruiting OGT to the mitochondrial surface of neuronal processes (PubMed:24995978). TRAK1 and RHOT form an essential protein complex that links KIF5 to mitochondria for light chain-independent, anterograde transport of mitochondria (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) differs in the 5' and 3' UTRs and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (4) is shorter and has distinct N- and C-termini, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>